## ISSUE SLIP STAPLE AREA (for additional cross references)

| POSITION                  | !NITIALS | !D NO. | DATE      |
|---------------------------|----------|--------|-----------|
| FEE DETERMINATION         | WA       |        | 09-,29-01 |
| O.I.P.E. CLASSIFIER       |          | Woen   | 10/5701   |
| FORMALITY REVIEW          | G        | 912    | 10-23-01  |
| RESPONSE FORMALITY REVIEW |          |        |           |
| RESPONSE FORMALITY REVIEW |          |        |           |

## **INDEX OF CLAIMS**

| • | Rejected                   | N | Non-elected  |
|---|----------------------------|---|--------------|
| = | Allowed                    | 1 | Interference |
| _ | (Through numeral) Canceled | Α | Appeal       |
| ÷ | Restricted                 | 0 | Objected     |

|            |            | _            |               |              |            | <b>D</b> - 1 | _              |              |                |              |            | 1 1 | 01-          | <u></u> T |                   |   |                |                | Dot        |                    |          |                |          |             |
|------------|------------|--------------|---------------|--------------|------------|--------------|----------------|--------------|----------------|--------------|------------|-----|--------------|-----------|-------------------|---|----------------|----------------|------------|--------------------|----------|----------------|----------|-------------|
| Cla        | aim        | <u> </u>     |               |              |            | Dat          | e              |              |                |              |            |     | Cla          | um        |                   |   |                |                | Dat        |                    |          | _              | - 1      |             |
| Final .    | Original   | 12           | 4<br>3<br>61- | 1115         |            |              |                |              |                |              |            |     | Final        | Original  |                   |   |                |                |            |                    |          |                |          |             |
|            | $\Box$     | =            | شتو           |              |            |              |                |              |                |              |            |     |              | 51        | _                 |   |                |                |            |                    |          |                | _        |             |
|            | 1          | 12           | -             |              |            |              |                |              |                |              | _          |     |              | 52        | _                 |   |                |                |            |                    |          |                |          |             |
|            | 1          | X            | <u>ار</u>     |              |            |              |                |              |                |              |            |     |              | 53        | _                 |   |                |                |            |                    |          |                |          |             |
| _          | 1          | Ц.           | r             |              |            |              |                |              | _              | L.           | L_         |     |              | 54        | _                 | _ |                | $\Box$         |            |                    | L.,      | _              | $\perp$  |             |
|            | A          | Ц            | 1             |              |            |              |                | <u>Ļ</u>     |                | _            |            |     | ļ            | 55        | _                 | _ |                |                |            |                    |          | _              | _        |             |
| L,         | <b>(</b> 6 | Ц            | ٥             | ~            |            | _            | _              | _            | _              | _            |            |     | <u> </u>     | 56        | 4                 | _ |                |                |            |                    | L        | -              | _        | _           |
| Į,         | 1          | Н            | 1             |              |            | ļ            | _              | <u> </u>     |                | ┡            | <u> </u>   |     | <u> </u>     | 57        | $\dashv$          | _ | _              | _              |            | $\vdash$           |          | _              |          | L           |
| _          | 1          | $\sqcup$     | V             |              | _          | <u> </u>     | L              | <u> </u>     | L              | _            | -          |     | ļ <u>.</u>   | 58        | $\dashv$          |   |                |                |            |                    | <u> </u> |                |          | _           |
| _          | 19         | Ц            | 1             |              | <u> </u>   | $\vdash$     | _              | <u> </u>     | L              | ┡            | -          |     |              | 59        | $\dashv$          |   |                |                |            |                    | <u> </u> | -              |          |             |
| ļ          | 19         | Н            |               | Щ            |            |              | <del> </del> - | -            | _              | -            | ┡          |     |              | 60<br>61  |                   |   | _              | _              |            |                    | -        | $\vdash$       |          | _           |
| -          | 12         | H            | 4             |              |            |              |                | -            | ┝              | ⊢            | -          |     | <del> </del> | 62        | $\dashv$          |   |                | -              | -          | $\vdash$           |          |                |          | _           |
| -          | 18         | Н            | 1             | H            | -          |              | ├-             | _            | <del>  .</del> | ⊢            | ⊢          | ł   |              | 63        | $\dashv$          | _ |                | -              | -          | $\vdash$           | H        | -              |          | _           |
|            | 18         | H            | 7             | -            |            |              | ┝              | _            | H              | -,           | $\vdash$   | 1   | -            | 64        | -                 |   |                |                | Η-         | H                  | $\vdash$ | H              |          | -           |
|            | 15         | ╫            | 5             | -            | -          | -            |                |              | -              |              | $\vdash$   |     | -            | 65        | $\dashv$          | _ |                | Ĥ              | $\vdash$   | -                  | $\vdash$ | Н              |          | -           |
| -          | 16         | ₩            | -             | ~            | <u> </u>   | -            | ├              | Ė            | -              | <u> </u>     | ├          |     |              | 66        | $\dashv$          |   | -              | -              | -          | ┝─                 |          |                |          |             |
| <u></u>    | 17         | H            | =             | 7            |            |              | <del> </del>   |              | ⊢              | -            | -          | ł   |              | 67        |                   |   |                |                |            | -                  | -        |                |          | ┝           |
| -          | 18         | H            | =             | 1            | -          |              | $\vdash$       | $\vdash$     | ┢              | H            | -          | 1   |              | 68        |                   |   |                | $\vdash$       | -          |                    |          | -              | —        | -           |
| -          | 19         | H            | =             |              | ┝          | -            | 1              | <del> </del> | -              | 十            | -          | 1   |              | 69        | ,,                |   | -              | -              |            | $\vdash$           | $\vdash$ |                |          |             |
| $\vdash$   | 20         | H            | =             | 7            | ┢          |              |                |              | -              | -            | <u> </u>   | 1   |              | 70        | $\dashv$          | _ |                |                |            | -                  |          | <del>  -</del> |          | -           |
|            | 21         | Н            | =             | -            | ├-         | ├            |                | -            | -              | -            | ŀ          | ł   |              | 71        | -                 |   | -              | <del> </del> - | -          | <del>  -</del>     | -        | $\vdash$       | -        | ┝           |
| _          | 22         | H            | =             |              | -          | -            | -              | ┢            |                |              | H          |     |              | 72        | $\vdash$          | _ |                | ┢              | H          | H                  | ┢╌       | ┝              | Н        | H           |
| -          | 23         | Н            | =             | 7            | 1          |              | <del> </del>   | H            | -              | -            | H          |     | -            | 73        | $\vdash$          | _ | 7              | $\vdash$       | -          | -                  |          | H              |          | <del></del> |
| H          | 24         | H            | =             | -            | ī          | -            | ╁╌             | ┢            | -              | $\vdash$     | $\vdash$   |     | -            | 74        | Н                 |   | <del>,</del> — | -              | -          | -                  | ,        | $\vdash$       |          | Н           |
|            | 25         | H            | =             | 1            | 4.1        | ı            | T .            |              |                |              | $\vdash$   |     | Г            | 75        | П                 |   | $\vdash$       |                | -          |                    |          | Г              |          | Г           |
| Г          | 26         | П            | =             | 7            | 7          |              | Г              | Г            |                |              | $\vdash$   |     | Г            | 76        |                   |   | Г              |                |            |                    |          |                |          | Г           |
|            | 27         | П            | =             | 1            | ŕ          | Ι.           |                |              |                | Г            |            | 1 . |              | 77        | П                 |   |                |                |            |                    |          |                |          | Γ           |
| Г          | 28         | H            | =             | 1            |            | Г            | 1              | F            |                |              |            | 1   |              | 78        |                   | _ |                |                |            |                    |          |                |          |             |
|            | 29         |              | ئيد           | 1            |            |              |                |              |                | T            |            | 1   | Г            | 79        | П                 |   |                |                |            |                    |          |                |          | Г           |
| -          | 30         | 7            | 0             | 1            |            |              |                | 1            |                |              |            | 1   | Г            | 80        |                   |   |                |                |            |                    |          |                |          |             |
|            | 31         |              | 0             | 7            |            |              |                |              |                |              | ·          |     |              | 81        |                   |   |                |                |            |                    |          |                |          |             |
|            | 32         | П            | 0             | ~            |            |              |                |              |                |              |            | ]   |              | 82        |                   | _ |                |                | L          |                    |          |                |          | L           |
|            | 33         | $\prod$      | 0             | 7            |            |              | Ľ              | Ĺ            |                |              | Ĺ          |     |              | 83        | Ш                 |   | <u> </u>       | L              | L          | $oxedsymbol{oxed}$ | <u> </u> | _              | L        | L           |
|            | 34         | Ц            | ٥             | 1            |            |              | L              | Ĺ            | L              | L            | Ŀ          | 1   | $oxed{oxed}$ | 84        | Ш                 |   | L.             | _              | _          | <u> </u>           | L        | L              | _        | L           |
| _          | 35         | Ш            | ے             | 1            | _          | <u> </u>     | Ļ              | _            | _              | L            | lacksquare |     |              | 85        |                   |   | L              | _              | <u> </u>   | _                  | <u> </u> | _              | L        | L           |
| L          | 36         | Щ            | 0             | <u> </u>     | _          |              | L              | L            | Ĺ              | _            | $\vdash$   |     | _            | 86        | $\mid \perp \mid$ |   | $\vdash$       | _              | <u> </u>   | <u> </u>           | -        | <u> </u>       | $\vdash$ | L           |
| <b>⊢</b>   | 37         | =            | عا            | /            | _          | L            | _              | <u>L</u>     | <u> </u>       | ļ            | <u> </u>   |     | $\vdash$     | 87        | $\sqcup$          |   | -              | <u> </u>       | L          | <u> </u>           | ├-       | -              | ļ        | L           |
| $\vdash$   | 38         | 1            | <del> </del>  | <u> </u>     | ļ          | <u> </u>     | <u> </u>       | <u> </u>     | <u> </u>       | 1            | ├-         | `   | <u> </u>     | 88        | $\sqcup$          |   | -              | <u> </u>       | $\vdash$   | -                  | <u> </u> | <del> </del> - | -        | ŀ           |
| $\vdash$   | 39         | -            | ـ             | -            | $\vdash$   | -            | 1              | <b>⊢</b>     | _              | -            | -          | 1   | $\vdash$     | 89        | $\vdash \vdash$   | _ | ·              | ⊢              | -          |                    | ├        | ├              | H        | $\vdash$    |
| $\vdash$   | 40         | <del>-</del> | 1             | <u> </u>     | Ŀ          | L            | <u> </u>       | ļ            | <u> </u>       | <u> </u>     | ├-         |     | <u> </u>     | 90        | $\sqcup$          |   | <u> </u>       | _              | <b> </b>   | <u> </u>           | Ľ        | -              | _        | $\vdash$    |
| <u> </u>   | 41         | _            | 1             |              | L          | _            | L              | <u> </u>     | _              | <u> </u>     | L          | 1   | <u> </u>     | 91        | $\sqcup$          |   | <u> </u>       | _              | _          |                    | _        | ļ.             | ·.       | L           |
| <b> </b> - | 42         |              | 1             | L.           | _          | Ļ            | L              | <u> </u>     | _              | <u> </u>     | $\vdash$   |     | $\vdash$     | 92        | $\sqcup$          |   | _              | <u> </u>       | -          | <u> </u>           | 1_       | <u> </u>       | <u> </u> | $\vdash$    |
| <u> </u>   | 43         | +            | 1             | _            | $\vdash$   | 1_           | ļ.             | ├-           | <u> </u>       | _            | -          | -   | <u> </u>     | 93        | $\vdash \dashv$   | _ | ⊢              | $\vdash$       | $\vdash$   | $\vdash$           | -        | -              | _        | $\vdash$    |
| L          | 44         |              | 1             | <u> </u>     | _          | <u>_</u>     | $\vdash$       | <u> </u>     | <u> </u>       | $\vdash$     | 1          | 1   | <u> </u>     | 94        | $\sqcup$          |   | $\vdash$       | <u> </u>       | $\vdash$   | _                  | <u> </u> | 1              | L        | L           |
|            | 45         |              | ┵             | <b>!</b> —   | <b> </b> _ | $\vdash$     | 1              | <b>!</b>     | _              | $\vdash$     | 1          | -   | $\vdash$     | 95        | $\sqcup$          |   | <del> </del>   | ⊢              | <b> </b> _ | <u> </u>           | 1        | -              | -        | ⊦           |
| L          | 46         | -            | ₩             | <del> </del> | <u> </u>   | ┡            | L              | ├-           | -              | $\vdash$     | ╀          | ŀ   | ⊢            | 96        | $\vdash$          | _ | ⊢              | ⊢              | ⊢          | $\vdash$           | ⊢        | -              | Ŀ        | H           |
| Ľ          | 1          |              | 1             | <u> </u>     | -          | Ŀ            | ┞-             | -            | <b> </b>       | <del> </del> | 1          | -   | ⊢            | 97        | $\vdash \vdash$   |   | -              | <u> </u>       | $\vdash$   | _                  | $\vdash$ | -              | -        | Ŀ           |
| Ŀ          | 48         | -            | +-            | ⊢            | <b>—</b>   | 1            | ⊢              | ļ.           | $\vdash$       | $\vdash$     | -          | 1   | <u> </u>     | 98<br>99  | $\vdash$          |   | $\vdash$       | $\vdash$       |            | $\vdash$           | -        | -              | $\vdash$ | ┞           |
| -          | 49         |              | $\vdash$      | ├            | $\vdash$   | ├            | $\vdash$       |              | $\vdash$       | $\vdash$     | ├-         | 1   | <b>-</b>     |           | $\vdash$          |   | -              | $\vdash$       | -          | $\vdash$           | H        | +-             | -        | ┞           |
| ш          | 50         | 1            | 1             |              | 11         |              | 11             | L            | L              | 1            | 1          | J   | ᆫ            | 100       |                   |   |                | L              | Щ.         |                    |          | 1_             | <u> </u> | 1           |

| Cla      | im         |          |          |          |            | Dat          | е        |              |          | _        |          |    |
|----------|------------|----------|----------|----------|------------|--------------|----------|--------------|----------|----------|----------|----|
| Final .  | Original   |          |          |          |            |              |          |              |          |          |          |    |
| <u>u</u> | 101        | -        | _        |          |            | -            |          |              |          | $\dashv$ | $\dashv$ |    |
|          | 102        | $\dashv$ |          |          |            | -            | <u> </u> |              | $\dashv$ | $\dashv$ | $\dashv$ |    |
|          | 103        |          |          |          |            |              |          | -            |          | $\dashv$ | ⊣        |    |
| <u> </u> | 104        |          |          |          | -          | $\vdash$     |          |              |          |          |          |    |
| _        | 105        |          |          |          | ⊢          | $\vdash$     |          | _            | $\dashv$ | $\vdash$ | $\dashv$ |    |
| _        | 106        |          |          |          | $\vdash$   |              |          | -            |          | -        |          |    |
|          | 107        | _        |          | _        | $\vdash$   |              |          |              |          |          | $\neg$   |    |
| -        | 108        |          |          |          |            |              |          |              |          |          | $\neg$   |    |
| $\vdash$ | 109        |          |          |          |            |              | Н        |              |          |          |          |    |
|          | 110        |          |          | _        | Т          | Т            |          |              |          |          | $\neg$   |    |
|          | 111        |          |          | $\vdash$ |            |              |          |              |          |          |          |    |
|          | 112        |          |          | _        |            |              |          |              |          |          |          |    |
|          | 113        |          |          |          |            |              |          |              |          |          |          |    |
|          | 114        |          |          | Г        | l          |              | Г        |              |          |          |          |    |
| -        | 115        |          |          |          |            |              |          |              |          |          |          |    |
|          | 116        |          |          |          |            |              |          |              |          |          |          |    |
|          | 117        | 1        |          |          |            |              |          |              | •        |          |          |    |
|          | 118        |          |          |          | -          |              |          |              |          |          |          |    |
|          | 119        |          |          |          |            | 7            |          |              |          |          |          |    |
|          | 120        |          |          | -        |            |              |          |              |          |          |          |    |
|          | 121        |          |          | Г        | ,          |              |          |              |          | ٠.       |          | ĺ  |
| 一        | 122        |          |          | -        | 1          |              |          |              |          | •        | ٠, .     | ,  |
|          | 123        |          | <u> </u> | ,        | -          | Г            |          |              |          |          |          | ŀ  |
|          | 124        |          |          |          |            | Ī            | .,       |              |          |          |          |    |
| Г        | 125        | Г        |          |          |            | Ŀ            |          |              | •        |          |          |    |
|          | 126        |          |          |          |            |              |          | ,            |          |          |          |    |
|          | 127        |          |          |          | L          |              |          |              |          |          |          |    |
|          | 128        |          |          |          | _          |              |          |              |          |          |          | l. |
|          | 129        | _        |          |          | L          | _            | L        |              |          | <u> </u> | <u>_</u> | ļ. |
| L        | 130        | _        |          | <u></u>  | <u> </u>   | <u> </u>     | L.       | _            | <u> </u> | <u>L</u> | Ŀ        | Į  |
| L        | 131        |          |          |          | L          | L            | L        | <u> </u>     | _        | L        | _        | l  |
|          | 132        |          |          | <u> </u> | <u> </u>   | <u> </u>     | L        | <u> </u>     | <u> </u> | L        | L        | l  |
| Ŀ        | 133        |          | _        | <u>L</u> | <u>Ļ</u> . | <u> </u>     | <u> </u> | Ŀ            | Ŀ        | <u> </u> | <u> </u> | ļ  |
| <u>L</u> | 134        |          | ļ        | _        | ╙          | _            | <u> </u> | <u> </u>     |          | _        |          | 1  |
| <u> </u> | 135        |          | <u> </u> | <u> </u> | ļ          | Ļ            | ├-       | <u> </u>     | _        | _        | <u> </u> | ł  |
| _        | 136        |          | _        | _        | ⊢          | ⊢            | ├-       | <del> </del> | _        | ├-       | -        | ł  |
| ┝        | 137        |          | <u> </u> | -        | ⊢          | L            | ļ.,      |              | ļ.,      | ŀ        | <u> </u> | ł  |
|          | 138        |          | <u> </u> |          | ┡          | ├-           | ┞        | <u> </u>     | -        | ├-       | _        | ł  |
|          | 139        |          | -        | ⊢        | ┢          | ⊢            | ├-       | -            | -        | -        | -        | ł  |
|          | 140        |          | <u> </u> | ├        | ┡          | <b>├</b>     | <u> </u> | ļ.           | 1        |          | l ·      | ł  |
| _        | 141        | Ŀ        | _        | _        | ┞-         | L            | L_       | _            | Ŀ        | ļ.       | _        | l  |
| <u> </u> | 142        | <u> </u> | -        | Ŀ        | -          | ـ            | ŀ        | <u> </u>     | ŀ        | _        | _        | 1  |
| <u> </u> | 143        |          | L        | L        | 1          | ⊢            | ├-       | Ŀ            | -        | $\vdash$ | -        |    |
| $\vdash$ | 144        |          | _        | <u> </u> | -          | <del> </del> | ⊢        | <b>—</b>     | _        | L        | -        | 1  |
| $\vdash$ | 145        |          | -        | -        |            | $\vdash$     | ├-       | <del> </del> | -        | <u> </u> | -        | ١  |
| $\vdash$ | 146        | -        | -        | -        | $\vdash$   | $\vdash$     |          | -            | ₩        | ├-       | -        | 1  |
| <u> </u> | 147        |          | -        | -        | -          |              | ▙        | $\vdash$     | ├        | ├-       | Ŀ        | l  |
| $\vdash$ | 148        | _        | -        | $\vdash$ | $\vdash$   | -            | ├        | -            | ⊢        | -        | -        | ł  |
| $\vdash$ | 149<br>150 | _        | -        |          | $\vdash$   | $\vdash$     | ├        | -            | ÷        | -        | $\vdash$ | ł  |
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